

Marketplace Mircoservice

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01 Requirement

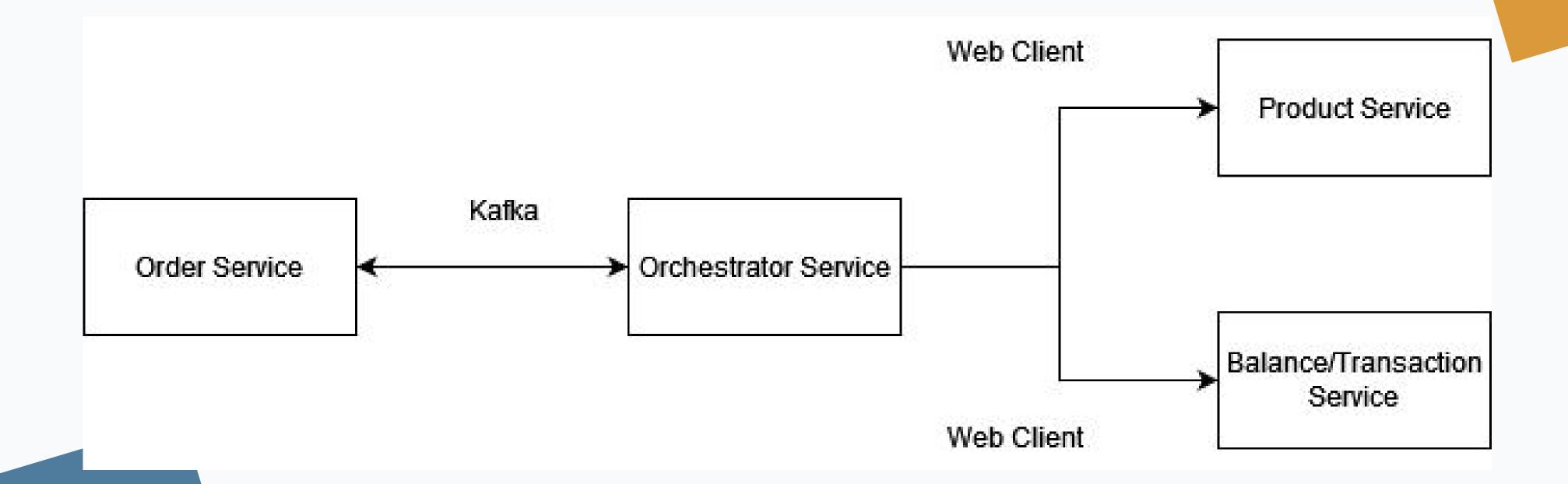
- 1. Service yang diminta: Product service, Balance & Transaction service, Order service, Orchestration service
- 2. Penggunaan Messaging
- 3. Komunikasi antar service melalui web client

02 Limitasi Project

- 1. Data yang diinputkan berupa data dummy
- 2. Komunikasi menggunakan messaging hanya dibataskan pada order service
- 3. Komunikasi dengan service lain selain order service menggunakan web client
- 4. Fokus utama project adalah komunikasi antar service

03 Project Architecture

- 1. Project menggunakan arsitektur microservice
- 2. Microservice menggunakan Saga Orchestration Pattern



04 Tech Stack

- 1. Java Language
- 2. Spring Boot WebFlux
- 3. Kafka
- 4. PostgreSQL
- 5. Spring Boot R2DBC

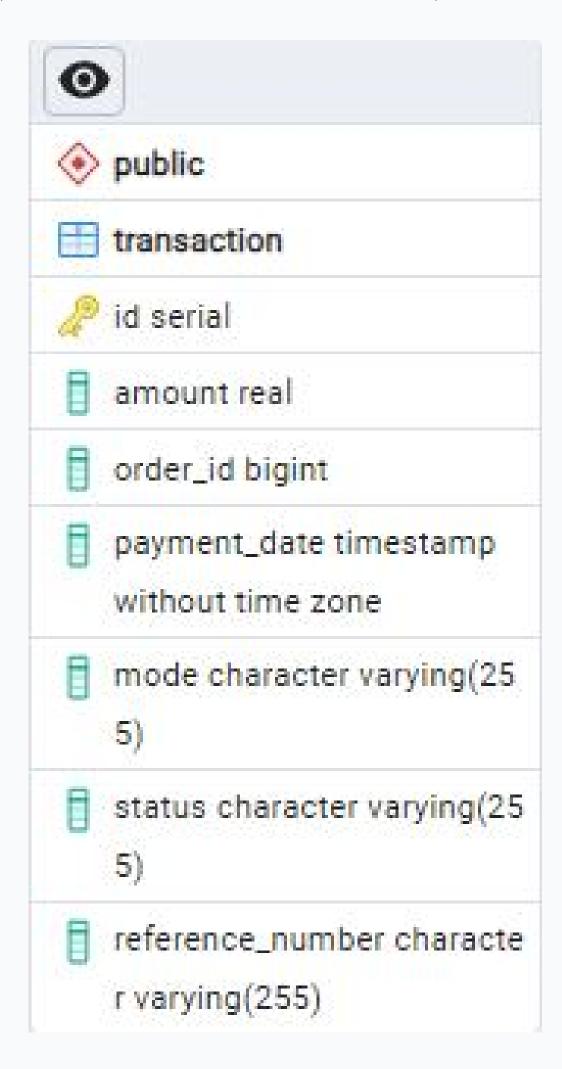
O5 Database Schema (Product)



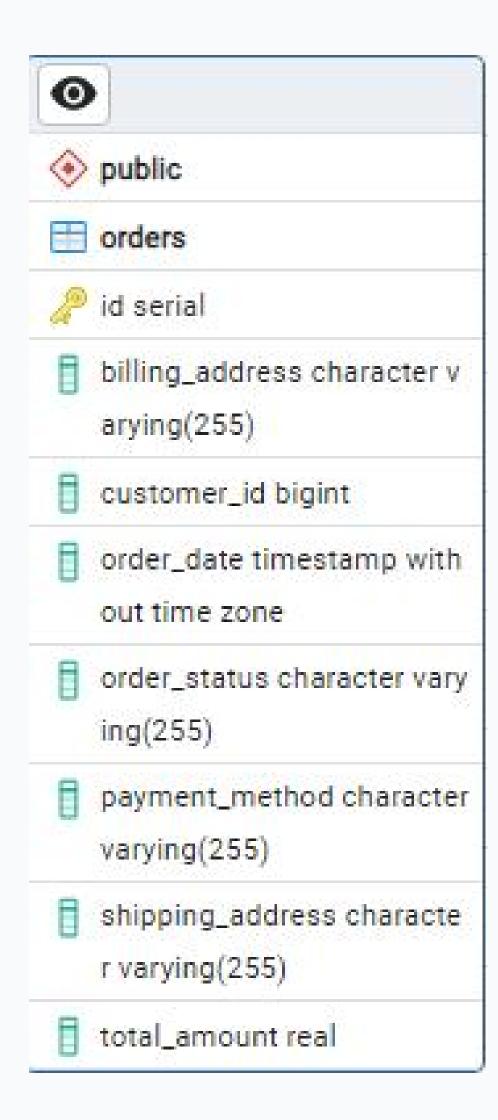
O5 Database Schema (Balance)



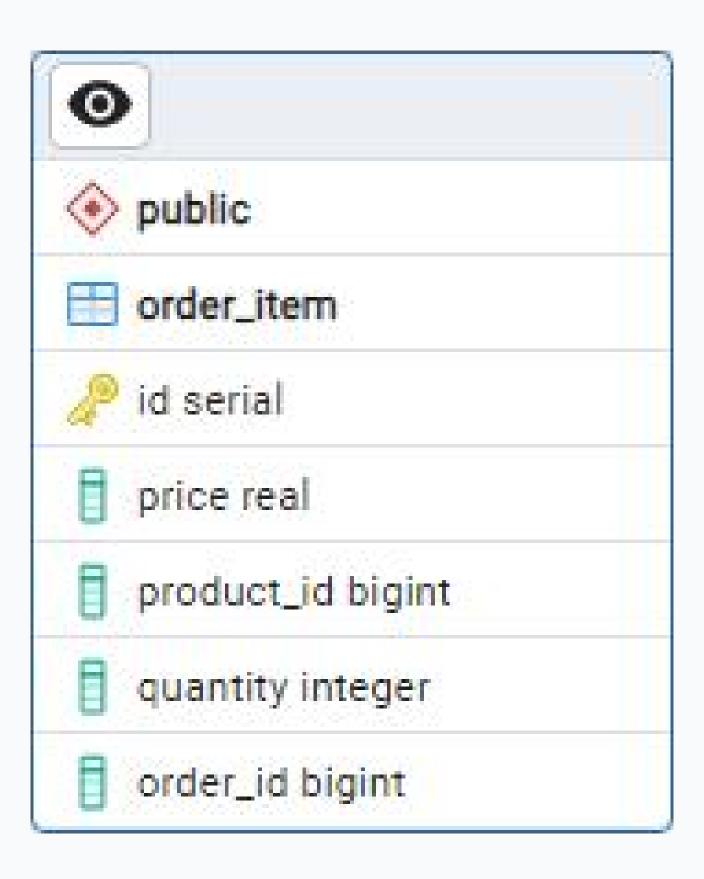
O5 Database Schema (Transaction)



05 Database Schema (Order)



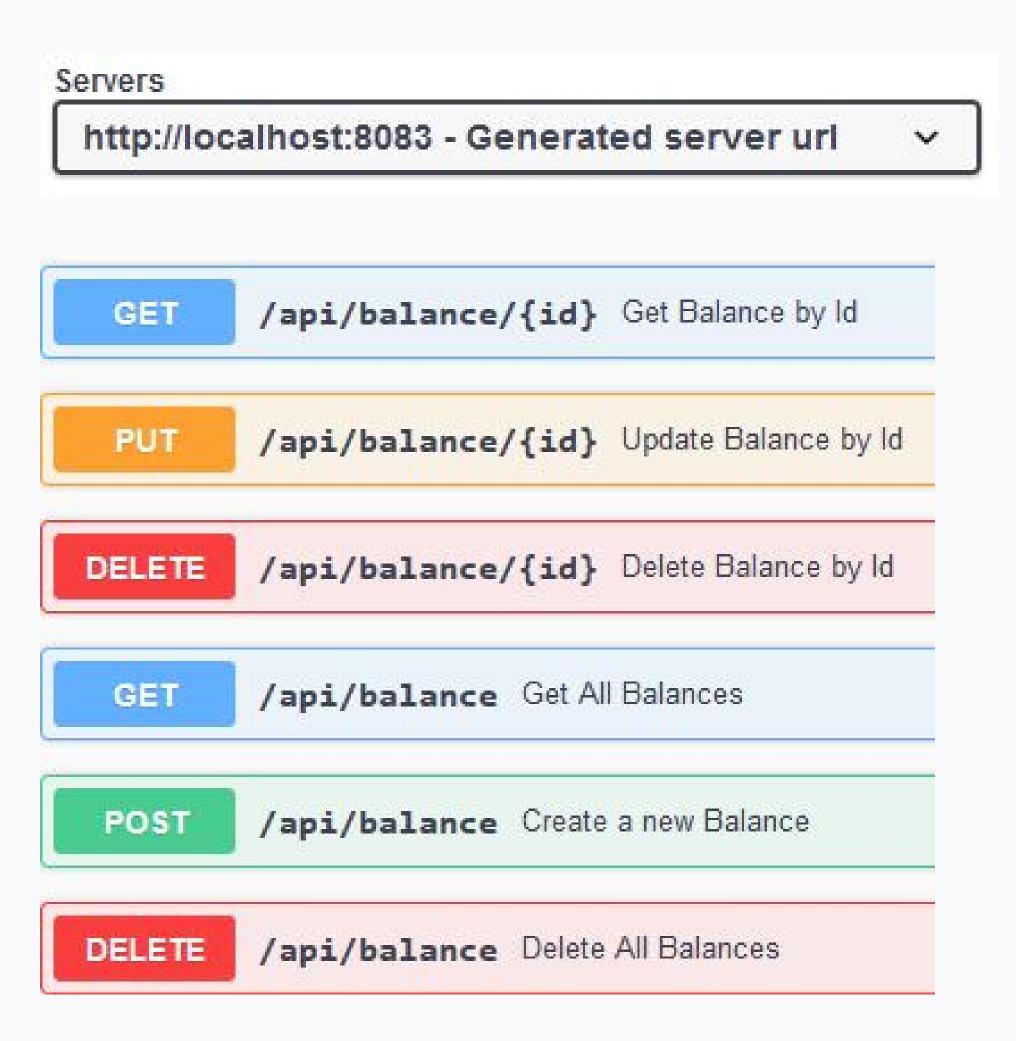
O5 Database Schema (Order Item)



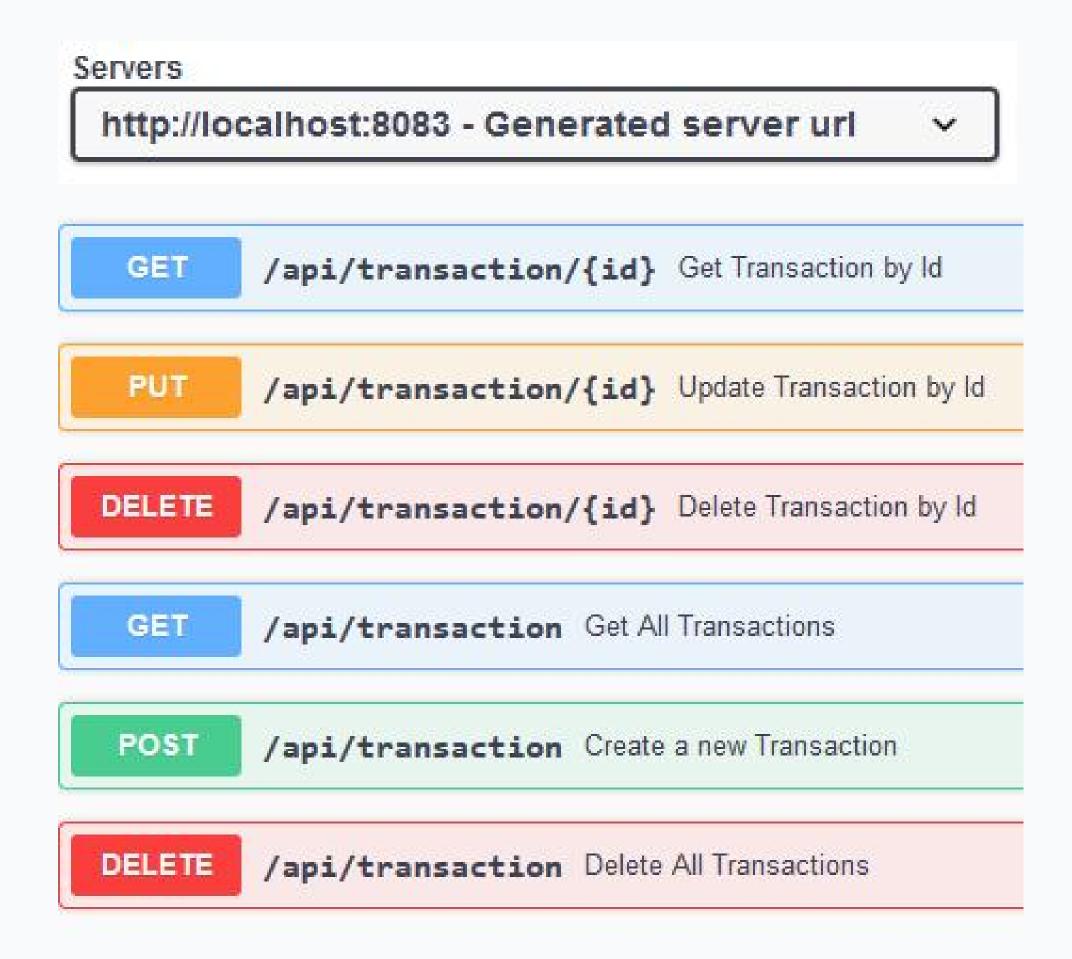
06 Endpoint (Product)



06 Endpoint (Balance)



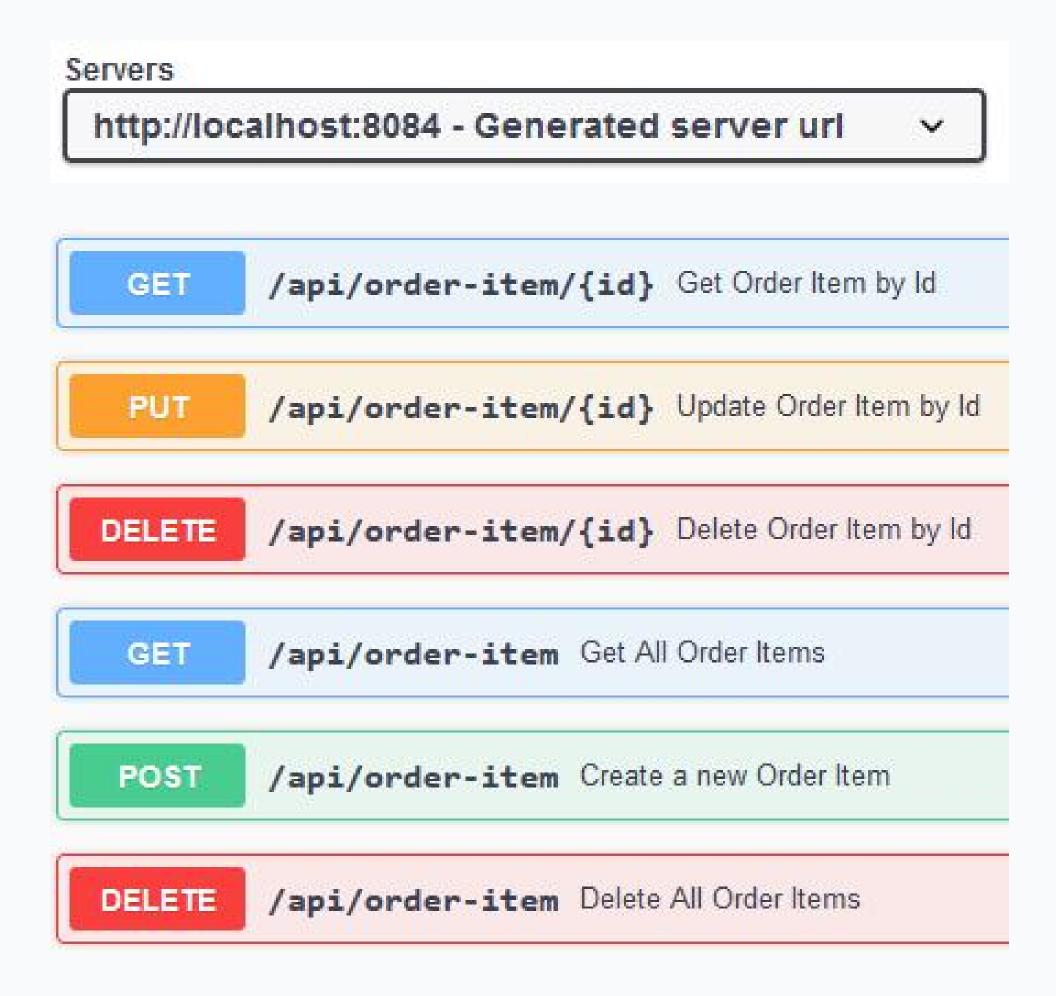
06 Endpoint (Transaction)



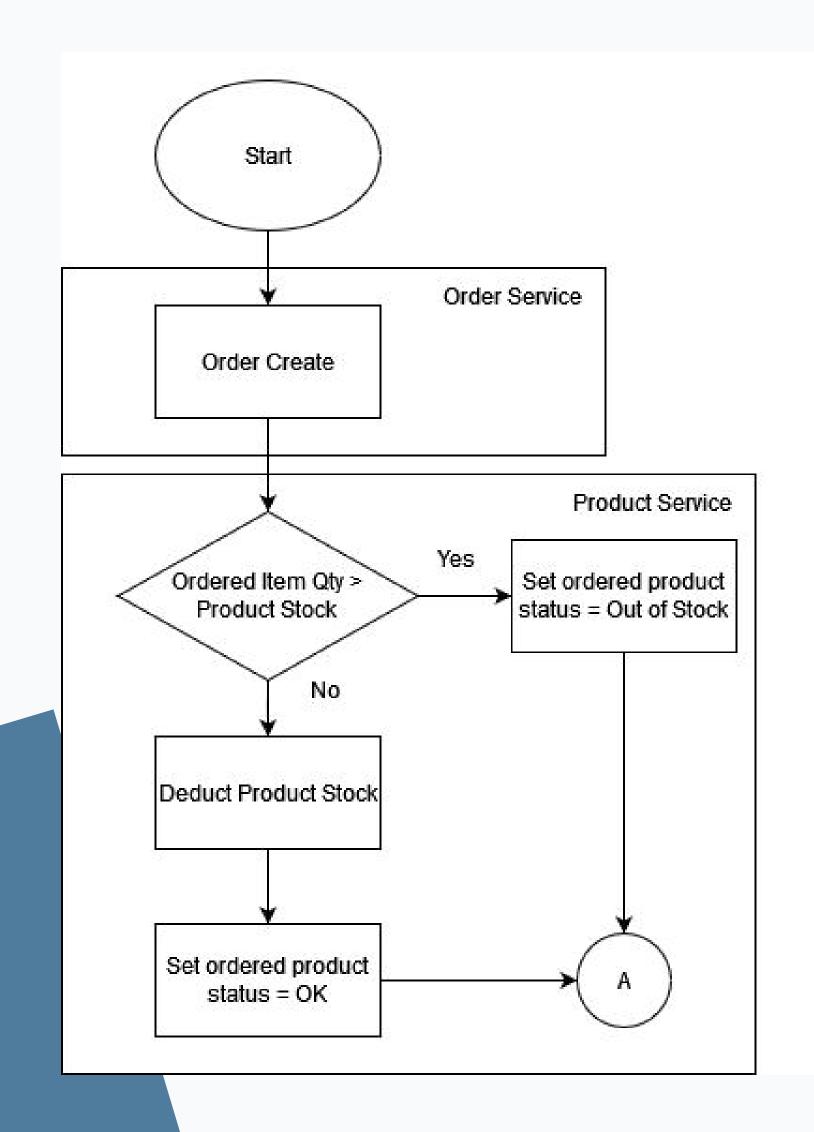
06 Endpoint (Order)

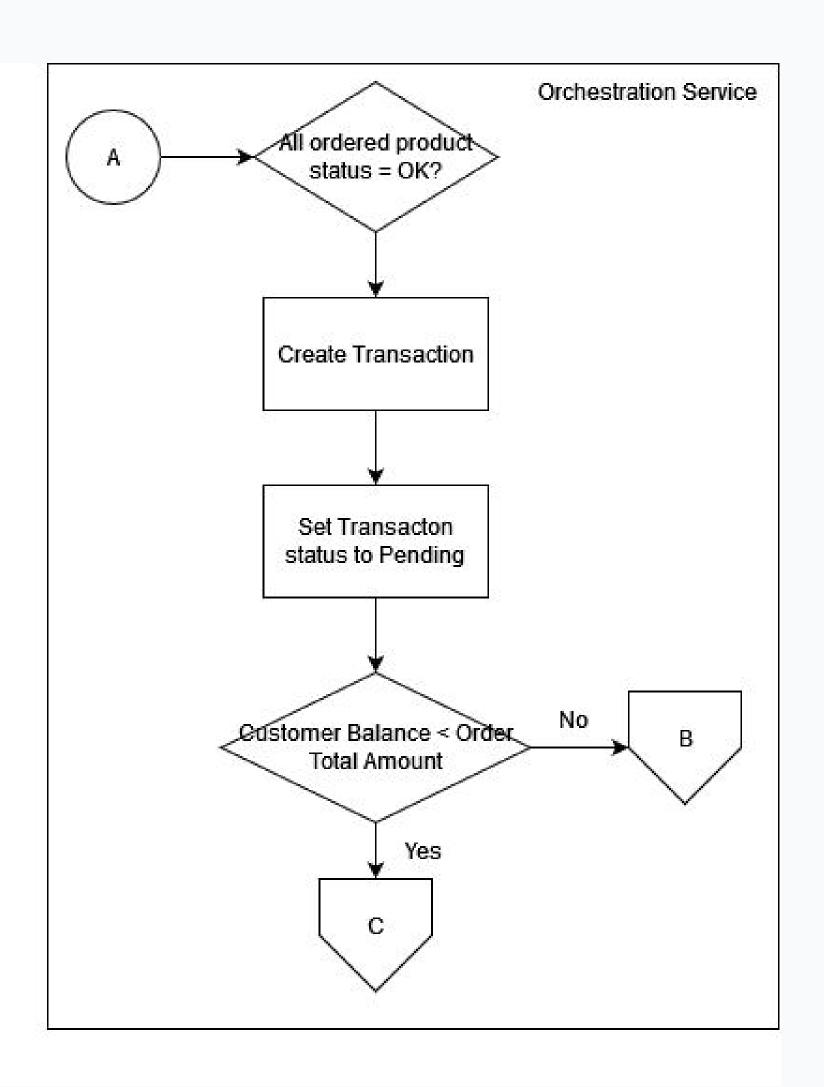


06 Endpoint (Order Item)

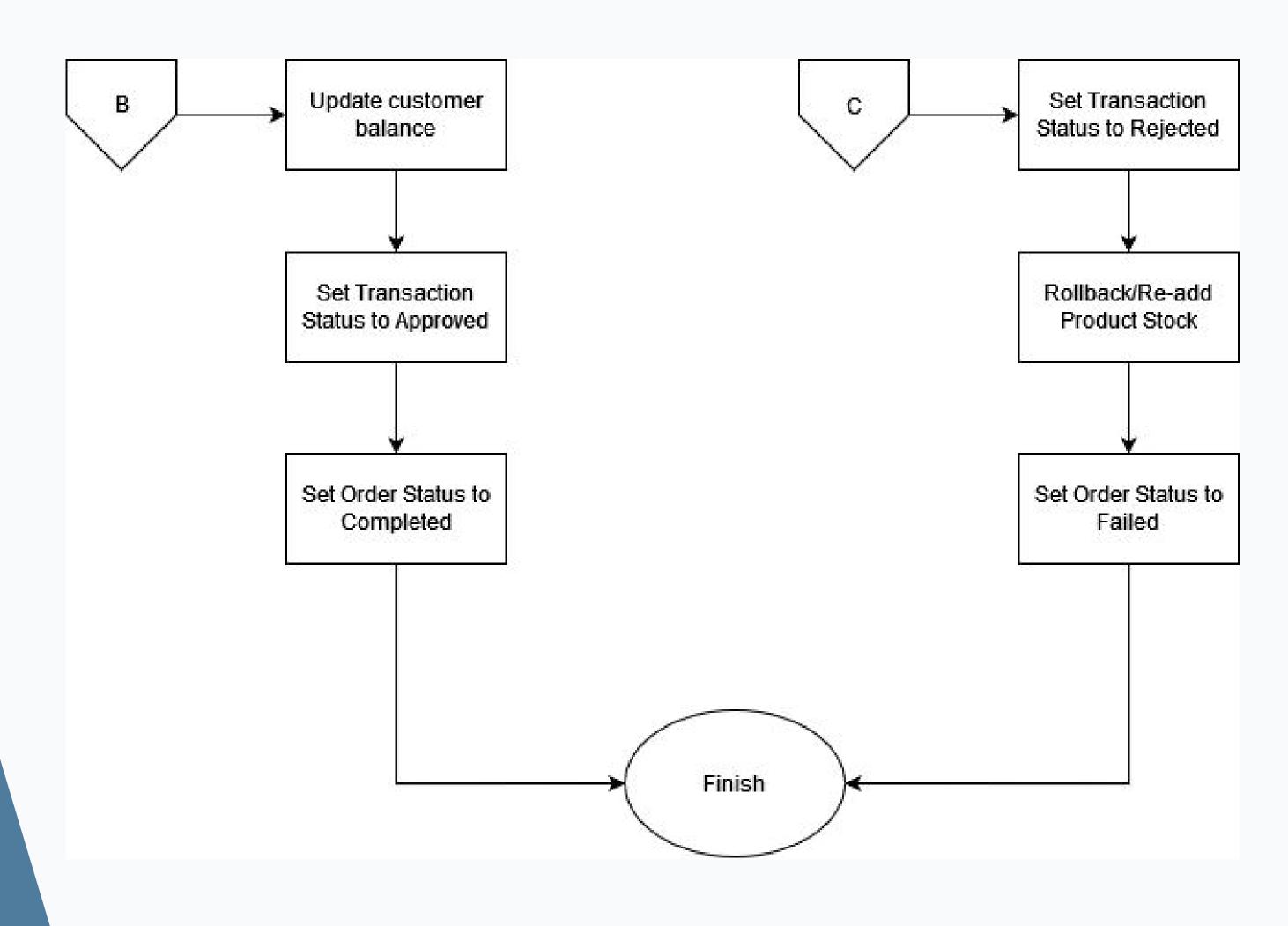


07 Flowchart Program (Part 1)





07 Flowchart Program (Part 2)



08 Demo App

Thank You